GNE.3030R1C6 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Goddard et al. (as amended)

Appl. No. : 10/036,063

Filed: December 26, 2001

For : ANTIBODIES TO POLYPEPTIDES THAT

INDUCE CELL PROLIFERATION (as

amended)

Examiner : Kolker, Daniel E.

Group Art Unit : 1649

DECLARATION UNDER 37 CFR §1,131

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

We declare and state as follows:

- 1. We are the inventors of the invention claimed in the above-captioned patent application.
- During the time period in which we participated in the events and activities described herein, we were employed by Genentech, Inc., the assignee of the above-captioned application.
- 3. All of the events and activities described herein were performed by us personally, or by others at our direction as part of our duties as employees of Genentech, Inc.
- The claimed antibodies and the proteins to which the claimed antibodies bind were conceived and reduced to practice in the United States prior to November 10, 1999 as described below.
- 5. Prior to November 10, 1999, we conceived of the invention claimed in the above-captioned patent application. This is demonstrated by the disclosure set forth in U.S. Provisional Patent Application No. 60/130,359, filed April 21, 1999, which describes the nucleic acid of SEQ ID NO: 56, the polypeptide of SEQ ID NO: 57, and the claimed antibodies to SEQ ID NO: 57. In addition, the attached sequence printout (Exhibit A), which was generated prior to November 10, 1999, shows the complete sequence of the nucleic acid having the sequence of SEQ ID NO: 56. The attached printout also shows the complete sequence of the polypeptide which has the sequence of SEQ ID NO: 57, to which the claimed antibodies bind. As evidenced by the provisional application and the sequence printout, we were in possession of the complete nucleic acid sequence, the complete amino acid sequences, and antibodies that bind to SEQ ID NO: 57 prior to April 21, 1999.

10/036.063

Filed

December 26, 2001

 The date deleted from Exhibit A is prior to November 10, 1999. This date was redacted pursuant to M.P.E.P. § 715.07. The date that remains is the date the report was printed, April 28, 2005.

- 7. After the initial experiments resulting in the sequences listed in the attached printout, we diligently reduced to practice the polypeptides to which the claimed antibodies bind by working to express and purify the encoded polypeptide and to run it systematically through many assays. The cDNA was deposited with the American Type Culture Collection (ATCC) on April 20, 1999 and assigned ATCC no. 203948. The protein of interest was assigned a "protein inventory number" (e.g., PIN1205-1), and this protein is the polypeptide having the sequence of SEQ ID NO:57, and is encoded by SEQ ID NO: 56.
- 8. Exhibit B shows that the protein lot designated PIN1205-1 was delivered to James Pan on a date prior to November 10, 1999 in order to perform assay ASY92, called "Mouse Mesangial Cell proliferation Assay." Also, as shown in Exhibit B, the assay was completed on a date prior to November 10, 1999. Exhibit B also shows that the tested polypeptides tested positive ("All Positives"), thereby confirming the ability of the encoded polypeptide to induce mesangial cell proliferation. Thus, SEQ ID NO: 57 and antibodies that bind thereto were reduced to practice on a date prior to November 10, 1999.
- The dates deleted from Exhibit B all are prior to November 10, 1999. These dates were redacted pursuant to M.P.E.P. § 715.07. The date that remains is the date the report was printed, April 28, 2005.

10/036,063

Filed

3905026 062007 : December 26, 2001

11. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information or belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issued thereon.

By:	a Loddard	Date: 6/25/07
	Audrey Goddard	,
By:	Paul J. Godowski	Date:
Ву:	A continuity Commons	Date:
Bv	Austin L. Gurney	Date
Dy.	- James Pan	Date:
Ву:	Colin K. Watanabe	Date:
By:		Date:
	William I. Wood	

-3-

Appl. No. Filed

3905026 062007 :

10/036,063

December 26, 2001

11. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information or belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issued thereon.

Ву: _		Date:
Ву:_	Audrey Goddard Paul J. Goddwski	Date: 6 29 0)
	•	Date:
Ву: _	James Pan	Date:
Ву: _	Colin K. Watanabe	Date:
Ву:_	William I. Wood	Date:

-3-

: 10/036.063

:

Filed

December 26, 2001

11. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information or belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issued thereon.

Ву:	Audrey Goddard	Date:
Ву:	Paul J. Øodewski	Date:
Ву:	Austin L. Gurney	Date: 7/1/17
Ву:	James Pan	Date:
Ву:	Colin K. Watanabe	Date:
Ву:	William I. Wood	Date:
3905026		

390502i

10/036,063

:

Filed

December 26, 2001

11. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information or belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issued thereon.

Ву:	Audrey Goddard	Date:
Ву:	Paul J. Godowski	Date:
Ву:	Austin L. Gurney	Date:
Ву:	James Pan	Date: June 22/07
Ву:	Colin K. Watanabe	Date:
Ву:	William I. Wood	Date:

3905026 062007

10/036,063

:

Filed

062007

December 26, 2001

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information or belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issued thereon.

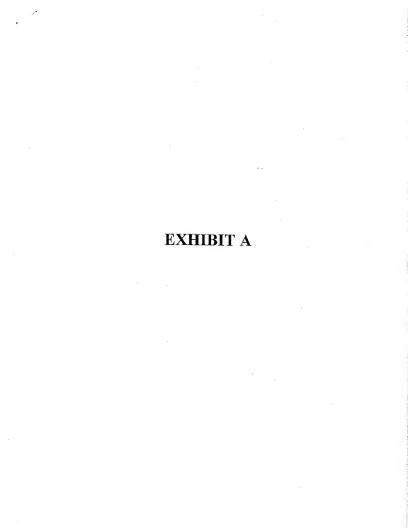
By:_		Date:
	Audrey Goddard	
Ву: _	Paul J. Godowski	Date:
Ву: _	Austin L. Gurney	Date:
Ву:	•	Date:
Ву:_	James Pan Colin K. Watzughe Colin K. Watanabe	Date: 6/27/2007
Ву:_	William I. Wood	Date:
3905026	6	

Appl. No. : 10/036,063 Filed : December 26, 2001

11. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information or belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issued thereon.

By:_		Date:
•	Audrey Goddard	
By:_		Date:
	Paul J. Godowski	
Ву:_		Date:
	Austin L. Gurney	
By:		Date:
	James Pan	
By:_		Date:
	r Colin K. Watanabe	, ,
By:	William & Word	Date: 6/25/07
	William I. Wood	•

3905026 062007



```
[DNA92234], sheldens
>Thursday, April 28, 2005
                                           >887 Sites [All Sites]
                   >DNA92234 [Full]
                                                                                > L1b309
```

.....

>Sequence confirmed by phredphrap

tsp509I[M.ecoRI-] mnlī paeR7I taqī xhoI tliI ecoRI hpy188I aatii cac8I aflili maeli/hpyCH4IV maeII/hpyCH4IV bsiWI/splI fnuDII/mvnI bstUI tail hinlI/acyl cac8I bsaAI bsh1236I ahall/bsaHI mlul rsal Ilds IHďsu tail nspl aluI

mboII. SapI

maeIII

tsp45I

snaBI

thal nlaIII

1 TAGGIGACAC TAIRGAAGAG CIAIGACGIC GCANGCACGC GTACGIAAGG TCGGAATICG GCTCGAGGAA TGAAIACCPC CGAAGCCGCT TIGITCTCCA ATCACTUTG ATALUTUTC GATACTGCAG COTACTGCG CATGCATTOG AGCUTAAGC CGAGCTCTT AUTATGGAG GCTTCGGGGA AACAAGAGT hphi sfcI earI/ksp632I hpy991 hpyCH4V csp6I aluI apoI

^insert starts here

p/Imdq fnu4HI/bsoFI hpy18

hpy188I acil

mall

avaI[M.taqI-]

ncil

hpall Idsm

mnlI llsd . tsp451

> bsp1286 bssKI dsav IMndd

Fymd maeII/hpyCH4IV bbsI bslI bsmFI tail mnl1 mbolI bsaJI

tru91 hphl

101 GATGIGBAIA GUICCACIAI ACCAGCUICG ICTICCIICO GGGGGACAAC GIGGGICAGG GCACAGAGAG AIAITIAAIG ICACCICTI GGGGTITCA CTACACTIAI CEAGGIGATA IGGIGGEAC AGAAGGAAG CCCCIGIIG CACCAGICC CGIGICICI IATAAAITAC AGIGGGAGAA CCCCGAAAGI msel maelli

mbol/ndeII[dam-] sau3AI

dpnII[dam-] dpnI[dam+]

alwI[dam-] nlaIV

hpy188III bstYI/xhoII alwI[dam-] Led IHmed hpy188I bstXI

mnlI

fnu4HI/bso bbvI bsmFI

tseī

201 FGGGACTCCC TCFGCCACAT TITITGGAGG TFGGGAAAGT TGCTAGAGGC TTCAGAACTC CAGCCTAATG GATCCCAAAC TCGGGAGAAI GGCTGCGTCC ACCCTGRGGG AGAGGGTGTA AAAAACCTCC AACCCTTCA ACGATCTCCG AAGTCTTGAG GTOGGATTAC CTAGGGTTTG AGCCCTCTTA CCGACGCAGG eco57I bpmI/gsuI[dcm-] bslI avaI

bfaI rmaī maeI

mnlI

bsmFI mnlI hinfl pleI mlyi

DPKL ^MET

E4
0
63
А
н
×
4
=

		ts	tseI	acil					
	ts	tseI mw	имої ф	thal nlaili		haeII			
	MIII	nd fn	mwol fnu4EI/bsoFI nspHI	IHdsu		Idsm			
	£n	fnu4HI/bsoFI		fnuDII/mvnI		scrFI[M.hpaII-]			
	qq	Ivdd Ivdd		bstUI[M.hhaI-]		ncil			
	tsel	tsel tsel	Д	bsh1236I		dsaV hinPI	bpuAI		ms
	IOWI	fnutHI	Igen Ifinit Isost/IHthin Iown	Idsu Id	Ihqh	mwol hpall	bbsI	rsal	mnll
NoI	fnu4H	fnu4HI/bsoFI		hhaI/cfoI	mulI	acil baski	Ilodm Inmx	csp6I	ecoNI
3c8I	Indd	Indd	nsb/Iwdq	I[dom-].	bseRI	bbvI bbvI bpmI/gsuI[dcm-] bseRI mnlI bslI bsaJI bhaI/cfoI	asp700 bsrI	srI	bslI

301 CTGCTGGCTG TGCTGCTGCT GCTGCTGGAG CGCGGCATGT TCTCCTCACC CTCCCCGCCC CCGGCGCTGT TAGAGAAGT CTTCCAGTAC ATTGACCTCC GACGACCGAC ACGACGACGA CGACGACCT GCGCCGTACA AGAGGAGTGG GAGGGGGGG GGCCGCGACA ATCTCTTTCA GAAGGTCATG TAACYGGAGG 11SC × Ç44 E K V PALL SS Dr S RGMP 1. 1. LLL 12 L L A V

earl/ksp6321 mboli sapi aluī SSTI sacī hgiAI/aspHI[M.aluI-

tth1111/aspI

bsp1286[M.aluI-]

ec1136II

bsiHKAI hpy188I

bmyI eco571

hpy188I

hinfi

saei taqi

hpyCH4V

DStF5I

46

pflFI pleI mlyI haeIII/palI mscI/ball fokl tsp5091 alw261/bsmAI alwNI[dcm-] apoI

401 ATCAGATGA ATTTGTGGAG ACGCTGAAGG AGTGGGTGGC CATCGAGAGC GACTCTGTC AGCCTGTGCG TCGCTTCAGA CAAGAGCTCT TCAGAATGAT TAGICCTACT TAAACAGGIC ÇGGGACTICC TCACCACGG GIAGCICICG CIGAGACAGG TCGGACACGG AGCGAAGICI GITCICGAGA AGICITACIA banII[M.aluI-] mall eco571 hpy188III cfrI FVQTLXE bsgI hgaI eco57I hpy188III

R

2

GSeqEdit, DNA92234 [Full], page 3

							Ħ				mboll	Landd	Isdd	pleI	mlyI	hinfi	hpy188I mnll	G GTCAGAGICT TCCAATACCT	C CAGTCTCAGA AGGTTATGGA	
						tseI	fnu4HI/bsoFI	aluī	pvull[M.H1-]	tseI	fnu4HI/bsoFI	sau96I alwNI[dcm-]	ppuMI ddeI mspAll/nspBII	nlaIV bspCNI bbvI	I ecool091/drail	nlaIII mnlI bbvI	pshAI avaII alw26I/bsmAI	GGACAIGGG ICCICAGCAG CIGCCCGAI	CCTGTACCC AGGAGTCGTC GACGGGCTA	
scrFI[dcm-]	pspGI sau96I[M.haeIII-]	mval pspOMI/bsp1201	ecoRII[dcm-]	dsaV[dcm-]	bstNI nlaIV	bssKI [dcm-]	hinPI bsp1286[M.haeIII-]	hhal/cfoI sfiI	tsel bsadl bmyl	fnu4HI/bsoFI sau96I[M.haeIII-]	bbvI apyI[dcm+]	I hpyCH4V banII[M.haeIII-]	DSI sfcI haeli apal mull	acii tsel alwNI[dcm-] haeIII/pall bsaJI	mwol fnu4HI/bsoFI pstI[M.Hl-] nlaIV haeIII/palI	r fnu4HI/bsoFI eco0109I/draII	I bbvI alw261/bsmAI bgll[M.haeIII-]	501 GGCCGTGGCT GCGGACACGC TGCAGCGCCT GGGGGCCCGT GTGGCCTCGG TGGACATGGG TCCTCAGCAG CTGCCCGATG GTCAGAGTCT TCCAATACCT	COGGLACGA CECCIGIGGG ACFICGCGGA CCCCGGGCA CACGGGAGC ACCIGIACCC AGGAGTCGIC GACGGGTAC CAGTCTCAGA AGGITATGGA	
												dsaI tseI	btgI/bstDSI	bsaJI	mwol fr	bceAI bbvI	haeIII/palI	501 Geccereec	CCGGCACCG	

IOWII

scrFI[dcm-] DapGI

mvaI

haeIII/palI mbol/ndeII[dam-] bst4CI/hpyCH4III draIII MWOI bslI sau3AI ecoRII (dcm-) bssKI[dcm-] bstNi bsli dsaV[dcm-]

scrFI[M.hpaII-]

ncil fnu4HI/bsoFI mspI

tseI

maeII/hpyCH4IV btrI hpyCH4V tail bbvI eael cfri bceAl MWOI bstAPI nlaIV banI dpnII[dam-] dpnI [dam+] alwI[dam-] bstF5I haeIII/palI fokī cfrī bsrī apyI[dcm+]

GGGCAGFAGG ACCGGCTTGA CCCCTCGCTA GGGTGCTTTC CGTGGCACAC GAAGATGCOG GTGAACCTGC ACGTCGGACG ACTGGCCCG CTACCCACG 601 CCCTCATCC TGCCCGAACT GGGGAGCGAT CCCACGAAGA GCACGAGTGT CTTCTACGCC CACTTGGACG TGCAGCCTGC TGACCGGGGG GATGGGTGCC Q P A PTK ABL 112 P V I

bsaJI

hpali dsaV bssKI

bsgI cac8I

mboI/ndeII[dam-] sau3AI mwoI dpnII[dam-] dpnI[dam+] alwI[dam-] sau96I[M.haeIII-] eco01091/draII haeIII/pall bslI bseRI bsiEI mnli mcri

101 YCACGGACCC CTATGTGCTG ACGGAGGTAG ACGGGAAACT TTATGGACGA GGAGGACCG ACAACAAAGG CCCTGTCTTG GCTTGGATCA ATGCTGTGAG AGTGCCTGGG GATACACGAC TGCCTCCATC TGCCCTTTGA AATACCTGCT CCTCGCTGGC TGTTGTTTCC GGGACAGAAC CGAACCTAGT TACGACACC

accI mnli

sau96I avall

nlaIV

PVL G K L T E V D X V T D 146

GSeqEdit, DNA92234 [Full], page 5

mnli	pbwI/gsuI[dcm-]	scrFI[dcm-]	IĐđsđ	mvaI	ecoRII[dcm-]	dsaV[dcm-]	bstNI	bssKI[dcm-]	apyI[dcm+]	DeadI	801 GGCCTICAGA GCCCIGGAGC AAGATCTICC TGTGAATATC AAATICATCA TIGAGGGGAI GGAAGAGGCT GGCTCTGTG CCCTGGAGGA ACTIGTGGAA	SCGGAAGTCT CGGGACCTCG TTCTAGAAGG ACACTTATAG TTAAGTAGT AACTCCCCTA CCTTCTCCBA CCGAGACAAC GGGACCTCCT TGAACACCTT	179 AFR ALB Q DLP VNI KFII BGM BBA, GSVA LBB LVB
								fokl mboll cac81	batF5I mmlI	earI/ksp6321	GGAAGAGGCT G	CCTTCTCCGA CO	BEAG
								fokI	batF	mnll	A TIGAGGGGAT	T AACTCCCCTA	I E G M
									tsp509I	apol	C AAATTCATC	G TITAAGIAG	14 14 14
				eII[dam-]	am-j	IIO		計			C TGTGAATAT	G ACACTTATA	V N I
cm-]		sau3AI	dcm-]	dsaV[dcm-] mboI/ndeII[dam-]	dpnII[dam-]	bstYI/xhoII	cm-] mboll	m+] dpnI[da	pglII	sul[dcm-]	C AAGAICTIC	G TICTAGAAG	2 D L P
scrfl[dcm-]	Ibqsq	mval	ecoRII[dcm-]	dsaV[dc	pstNI	bsp1286	bmyl bssKI[dcm-] mboli	hpy188I apyI[dcm+] dpnI[dam+]	eco57I bsaJI bglII	mwoI banII bpmI/gsuI[dcm-]	A GCCCTGGAG	T CGGGACCTC	ALE
						Ä	Ē,	hpy1:	eco57I	id Iowm	1 CGCCIICAG	GCGGAAGTC	9 A F R
											80		1.7

scrFI[. kmaI/ps SCYFI[M hpall bssKI bsaJI ncil dsaV Idsm smaI ncil

avaI[M. bssKI bsaJI dsav nlaIV mbol/ndell[dam-] dpnII[dam-] dpnI [dam+] alwI[dam-] sau3AI hpy1881

cac8I

901 aaagaaagg accaattett ctotggtgtg gactacattg taatttcaga taacctgtgg atcagccaaa ggaagccagc aatcactaat ggaacccgg TITCITIYCC TGGCTBAGBA GAGACCACAC CTGATGTBAC ATTAAAGTCT ATTGGACACC TAGTCGGTTT CCTTCGGTCG TTAGTGAATA CCTTGGGCCC K P A ISOR NLW DYIV SGV 212 K E

tsp509I

sau961 mboII avall hinfl tfil

mvaI

ecoRII[dcm-] dsaV[dcm-]

hpy188III ddeI nlaIV bssKI [dcm-] bstNI bsmAI bsaI

mbol/ndell[da

dpnII[dam-] sau3AI

bstF51 hpy188III nlaIII

fokl rcal

dpnI[dam+] ea CCTTGTCGAT GAAGTACCAC CTCCACTTTA CGTCTCTGGT CCTAAAAGTG AGTCCTTGGA AACCACCGTA GGAAGTACTT GGTTACCGAC TAGACCAACG 1001 GGAACAGCTA CTTCATGGTG GAGGTGAAAT GCAGAGACCA GGATTTTCAC TCAGGAACCT TTGGTGGCAT CCTTCATGAA CCAATGGCTG ATCTGGTTGC sfaNI bspHI pspCNI hpyCH4V apy1[dcm+] nlailî mnli

T E I 9 9 E H R D Q F W 246

GSeqEdit, DNA92234 [Full], page 9

													TACATACAAA	ATCTATGTTT	T Y K
										muli		earI/ksp6321	1101 TCTTCTOGGT AGCTGGTRG ACTGGTCTGG TCATATCCTG GTCCCTGGRA TCTATGATGA AGTGGTTCCT CTTACAGARG AGGARATAAA TACATACAAA	AGAAGAGCCA TCGGACCATC TGAGCAGACC AGTATAGGAC CAGGGACCIT AGATACIACT TCACCAAGGA GAATGTCITC TCCTTAATT AIGTAIGTIT	279 LLG SLVD SSG HIL VPGI YDE VVP LTEB EIN
										Ē	IIoqu		CITACAGAAG	SAATGTCTTC	LTER
											xmnI nlaIV	asp700 mnlI	Greerreer (CACCAAGGA (V V P
											IUUX	asp7	TATGATGA A	BATACTACT T	Y D E
bstNI	bssKI[dcm-]	sau96I[dcm-]		avall[dcm-]	[-ux	pspGI apyI[dcm+]	1FI	lcm-]	Ę	заЛ	bssKI[dcm-] tfil	apyI[dcm+] hinfI	CCTGGAA TC	SGGACCIT AG	E G I
		sau9	nlaIV	aval	scrFI[dcm-]	pspGI	mval bsmFI	ecoRII[dcm-]	dsaV[dcm-]	bstNI bsaJI	bssKI (do	apyI[dcn	PATCCTG GT	ATAGGAC CAC	I I V
													TCTGG TCA	AGACC AGE	95 S
				accI	scrFI[dcm-]	pspGI pleI	mval mlyl	eccRII[dcm-]	dsaV[dcm-]	bstNI hinfl	bssKI[dcm-]	apyl[dcm+]	SCTAG ACTOR	CATC TGAG	A D S
					SCL	dsd	mva.	ecol	dsav	bst	bsst	apyl	GGT AGCCTG	SCCA TCGGAC	S E
												IIoqu	101 TCTTCTC	AGAAGAG	279 L L
													H		

ecoRII[dcn-] dsaV[dcm-] scrFI[dcm-] pspGI mvaI

rsal	csp6I	nlaIV	kpnI	banI	asp718	bpmI/gsuI[dcm	hpy188III	acc651	mnlI
						udq	hpy1	mnll	hpyCH4V
								téir	hinfī
								mnll tfil	ddeI bseRI hinfI
									taqI
	paII-]							tsp509I	apol
	scrFI[M.hpaII-]	notI	Idsm	hpall	dsaV	DasKI	tseI	fnu4HI/bsoFI	Indd
							Idsm	hpall	bsaWI
						aI.	Ie	hpyl88III mboII	I
					н	I zmaI	maeI	BSIII	bstF5I bfaI bfaI
					rmal	maeI	xbaI		I bfa
								fokī	bstF.

1201 GCCATCCATC TAGACCTAGA AGAATACCGG ANTAGCAGCC GGGTTGAGAA ATTTCTGTTC GATACTAAGG AGGAGATTCT AATGCACCTC TGGAGGTACC CGGTAGGTAG ATCIGGATCI TCTTATGGCC TTATCGTCGG CCCAACTCIT TAAAGACAAG CTATGATTCC TCCTCTAAGA TTACGTGGAG ACCTCCAAGS MHL H H DIK FI VEX N S S R EX 312 A I B L

haeTTT/nalT

								ısq	rmaI	maeI
								tsp509I	apol	XmnI
וומבידד/ המדי	eael[dcm-]	cfrI	scrFI[dcm-]	pspGI	mval	ecoRII[dcm-]	dsaV[dcm-]	bstNI	bssKI[dcm-]	apyI[dcm+]
			scrFI[dcm-]	Ibdsd	mvaI	ecoRII[dcm-]		dsaV[dcm-]	bstNI	bssKI[dcm-]
		thal	fnuDII/mvnI	hinPI	mnll bstUI[M.hhal-] mvaI	sau3AI hhaI/cfoI	mbol/ndelI[dam-][M.taqI-]	dpnII[dam-]	dpnI [dan+]	alwI[dam-] bsh1236I

1301 CAFCTCTTC TATTCATGGG ATCGAGGGG GGTTTGATGA GCCTGGAACT AAAACAGTCA TACCTGGCGG AGTTATAGGA AAATTTTCAA TCCGTCTAGT GTAGAGAAAG ATAAGTACCC TAGCTCCCGC GCAAACTACT CGGACCTTGA TTTGTCAGT ATGGACCGGC TGAATATCCT TTTAAAAGTT AGGCAGATCA bfal asp700 D I V P G bst4CI/hpyCH4III apyI[dcm+] nlaIII taqI[dam-] 346

m,	'n.	nlaII	53	26			san	oqu	dpn	dpn	alw	5	Ħ	н
		ä	CCA	3GT	Σ		-,	-	Ŭ	Ŭ		LAI	ATA(Z
	٠		L	F.	S							AGA	īCī	Ω
			Ď.	AC.	>							8	8	ů,
			GGT	S	۶							GAA	CI	ы
			GAT	CIA	Z			Ħ				P.C.	TGI	E4
		_	CAP	GTI	×			sau3AI bst4CI/hpyCH4III				1993	ACC.	ø
		bstXI	C.B.	5	z			/hg	7			E	Ę	(Eq
			TTC	AAG	Ø	tspRI		4CI	dam			GTG	CAC	>
		9	TAG	ATC	S	ţ	н	bst	ij	[-	Ŧ	P.C.	TGI	EH
	xmnI	asp700	A AZ	E	×		hpy188I	Ħ	/nde	Ę.	[dan	3	ដ	~
	×	rit	AAG	TIC	ps;		d	au3	mbol/ndell[dam-]	dpnII[dam-]	dpnI[dam+]	ATC	TAG	
			CA	GIT	×			¢,	E	o	Ð.	9	200	ď
			E G	GAG	S					FI		AG.	Ę	œ
			STT	3AA	P4			н		fnu4HI/bsoFI		AA	LII	м
			TGI	ACA	>			MWOI	н	4HI	н	GCA.	CGT	~
	H	Η	AGA	TCL	ы				tseI	Ęun	Ivdd	5	CGT	æ
	IIoqu	hpy188III	IG 2	PC J	M							5	5	
		hpy	TCL	AGA	ы							TAT	ATA	>4
			ACA	TGI	щ						bsrI	CAG	GIG	a
_			8	g	吆						м	8	ğ	
tsp45I	maelli	н	GAC	CIG	EH							GAC	CIG	Д
13	Шa	hphI	GGT	ő	>							GAT	CLA	Δ
			ACA	TGI	ø							AL	TA	н
			AAA	PET	×					btgI/bstDSI sspI	44	AAT	TA	2
			GGA	CT	M					н	pyC	GCA	CGT	×
		н	GGT	SCC	>					tDS	.4	ATT	TAA	н
		acil	25	2	A				м	Z/ps	bsaJI hpyCH4V	5	PC C	æ
			GIC	CAG	S				dsaī	btg	bsa	8	GGC	e,
			TGL	ACA	>							5	GTG	II;
H		_	A.A.	E	z							13	M S	
nlaIII	mslI	mnll mslI	CATC	GGGAGIGIAC TTACACAGAC GCCACCTIT IGICCACIGI GCIGIAGAAC IICIACACAA GAGGITITCI TIAICAAGGI IGIICIACCA ACAAAGGIAC	Σ				н	ы	H	GGAC	TEAGATOCTG AIGTGGGCAC CLAACGITLA TAACTACTGT GGGTCATAGA GCGTCGTTT TCTCGCTAGT CTTGTCACAA ACCTTGTCTT GGTCTALACT	
•	ES SE	H	TCA	AGT	œ				rmaĭ	maeī	bfaI	G	GAT	н
		E	8	999	C4							ACT	TGA	H
			1401 CCCYCACATG AATGTGTGG GGGGGAAAA ACAGGTGACA CGACATGTTG AAGATGTGTT CTCCAAAAGA AATAGTTCCA ACAAGATGGT TGTTTCCATG		379 РНМ И У S A У E K О V T ЯНГВ D V P S KR W S X K M V V S M							1501 ACTCTRGGAC TRCACCCGTG GATTGCAAAT ATTGATGACA CCCAGTATCT CGCAGCAAAA AGAGCGATCA GAACAGTGTT TGGAACAGAA CCAGATATGA		412TIGT HPW IAN IDDT QYL AAK RAIR TVF GTE PDMI
			Ä									H		

sau3AI

mboI/ndeII[dam-] dpnII[dam-]

sau3AI

fokl dpnI(dam+) scrFI[dcm-]
bstF5I pspGt mbol/ndeII[dam-]
prin hantv-1

ScrFI[M.hpail-] mval dpnII[dam-]
noil alwi[dam-] ecoRII[dcm-]

mspl nlaIV dsaV[dcm-]
hpall bstYI/xhoII bstXI/qdon+]
dsaV bamHI tsp509I bssKI[dcm-]

mspAll/nspBII

tsp509I

1601 TCCGGGATGG ATCCACCATT CCAATTGCCA AAAFGTTCCA GGAGATCGTC CACAAGAGCG TGGTGCTAAT TCCGCTGGGA GCTGTTGATG ATGGAGAACA acil TOMM apyI[dcm+] munI/mfeI bssKI alwI[dam-]

AGGCCCTACC TAGGTGGTAA GGTTAACGGT TTTACAAGGT CCTCTAGGAG GTGTTCTCGC ACCACGATTA AGGCGACCCT CGACAACTAC TACCTCTTGT A V D'D P 1. G HKSVVLI MFQEIV PIAK 446

tsel alul msel sausel[M.haelll-]

1701 TTCCCAGAAT GAGAAAATCA ACAGGTGGAA CTACATAGAG GGAACCAAAT TATTTGCTGC CTTTTTCTTA GAGATGGCCC AGCTCCATTA ATCACAAGAA AAGCGTCITA CTCITTIAGF IGICCACCTI GAIGIAICIC CCITGGTITA AIAAACGACG GAAAAAGAAI CICIACCGGG ICGAGGIAAI FAGIGTTCIT haeIII/pall aseI/asnI/vspI ddeI tsp509I bbvI muli

E M A O FF C T K

sau3AI

mbol/ndell[dam-] dpnII[dam-]

tspRI hpy188I sau3AI

dpnI[dam+]

rmaĭ maeI

bstFSI fokī foki bfal bslI bslI bstF51 hinfI[M.hphI~] tfil mull mbol/ndeII[dam-] hpy188I alwI[dam-] dpnII[dam-] dpnI[dam+]

maeI rmaI

rsal

mael

rmaI

tsp509I apol csp6I 1801 CCTTCTAGTC TGATCTGATC CACTGACAGA FTCACCTCCC CCACATCCCT AGACAGGGAT GGAATGTAAA TATCCAGAGA ATTTGGGTCT AGTATAGTAC GGBAGAICAG ACTAGACTAG GTGACTGTCT AAGTGGAGGG GGTGTAGGGA TCTGTCCCTA CCTTACATT ATAGGTCTCT TAAACCAGA TCAFATCATG bfaI hpy188III bfal

hpyCE4V Igsd eco01091/draII sau96I nlaIV avali IWndd mbcI/ndeII[dam-] dpnII[dam-] sau3AI

Ides dpnI[dam+] ecoRV alw1[dam-] hpy188III ahaIII/draI

tru91 mseī

tspRI btsI

tru9I

msel bsmFI

1901 ATTITCCTI CCAITTAAAA IGTCTIGGGA TATCIGGATC AGTAAIAAAA TATTICAAAG GCACAGAIGI IGGAAAIGGI TIAAGGICCC CCACIGCACA TRRARGEGRA GETRARITIT ACAGRACCE ATRORCETS TERITATIT ATRARGETIC CSTSTCTAER ACCTITACE ARTICCAGGG GGTGACGIGT scrFI[dcm-]

pspGI mvaI ecoRII[dcm-]

dsaV[dcm-]

bssKI[dcm-] bstNI

fnu4HI/bsoFI

tseI bbvi

fnu4HI/bsoFI Ivdd

smll

tseI

cac8I

apyI[dcm+] ball

tfil

2001 CCTTCCTCAA GTCATAGCTG CTTGCAGCAA CTTGATTTCC CCAAGTCCTG TGCAATAGCC CCAGGATTGG ATTCCTTCCA ACCTTTAGC ATANCTCCAA GGAAGGAGTI CAGTATOGAC GAACGTOGTT GAACTAAAGG GGTTCAGGAC ACGTTATCGG GGTCCTAACC TAAGGAAGGT TGGAAAATCG TATAGAGGTT hinfi hpyCH4V bsaJI hpyCH4V aluI

tsp45I hgiAI/aspHI bssSI sau96I avall IMndd

eccol091/drail hpy188iii

mboI/ndeII[dam-] dpnII[dam-1

fokI

sau3AI

DSIHKAI bsp1286 smlI mnlI bfaI rmaI maeI hpaII Idsm bsaWI

2101 CCTIGCAATT TGATIGGCAT AAFGACTCGG GTIFGCTITIC TAGGTCCFCA AGIGCTGGIG ACACATAAIC AITGCAICCA AIGATGGCCI TIGCTITACC ggaacstra actaaccsta ttastgaggc caaacgaaag atccaggast tcacgagcac iststattag taaggtaggt tactagcgga aacgaaatgg dpnI[dam+] bstF5I bmyI maeIII

Lru9I mseI

bsmAI

tgagaaagga aaatagaata attatttta caaccagagg tgstgacnga gggttttttt tttttttt tyyytyttty tytyttttt tftttt tettyttt tspRI bsal aseI/asnI/vspI

```
scrFI[M.hpaII-]
                 ncil
```

Iledu Idsm

dsaV

sau96I rsaI rsrII/cspI KMal/pspAl bssKI

kpnI hpyCH4V hpy188III csp61 nlaIV scrFI[M.hpaII-] cpoI mrol Smal taqi ncil

aciī

banl sfcI sacI hincII/hindII[M.taqI-] avaII[M.hpaII-] pspMII sall dsaV fnu4HI/bsoFI haeIII/palI

eagl/xmaIII/eclXI aluI accI[M.taqI-] tru9I mspI asp718

bssKI asel/asnI/vspI acc65I cac8I sse8387I hgiAI/aspHI[M.alu1-] mseI bspEI cfr10I/bsrFI bsp1286[M.alul-] xmnI tsp509I bsaWI pstI bsaJI tsp509I bsaWI ageI bsinkai ecl136II mael bfaI rmal bsiEI eael cfrI notI

2301 ARARARARA ARARARARA RARGGGCGC CGCOGRUTAG TGRGCTCGTC GRCCCGGGAR TTRAITCCGG ACCGGTACUT GCAGGGGTAC CAGUTTCCC bmyl hpy99I aval[M.hpaII-] hpaII mspI bspMI banII[M.alul-] asp700 accIII hpaII sbfI speI fnu4HI/bsoFI acir

csp6l aluI

THITITIT TITITITY TITOCCCCC GOGGIGIE ACTOGACOG CTGGCCCT ANTANGCC TGGCCNIGGA CGICCGCAIG GTGCGAAGG

hinfi pleI mlyI

2401 TATAGTGAGT CGTATTAGAG CTTGG ATATCACTCA GCATAATCTC GAACC GSegEdit, DNA92234 [Full], page 15

25	1295 2374	727 1117 2348	2366	86 332 355 511 1420 1672 2326 2330	25	37	2371	25	1914	19 48 110 485 569 1006 1680 1781 2016 2343 2392 2419	418 523 565	270 271 628 785 959 1319 1599 1609 1610 1817 1936	418 523 565	533	54 409 841 1249 1381 1879	528 609 813 882 1038 1113 1137 1144 1342 1363 1638 2061	1787 2219 2360	1787 2219 2360	375 1159 1379 1469 2358	1295 2374	484 2152 2342	451	62 280 995 2353	559 705 909 1140 1985 2143 2369	437	270 1609	640 1295 2374	GSeqEdit, DNA92234 [Full], page 16
aatII(GACGTC):	acc651 (GGTACC):	accI (GTMKAC):	accIII (TCCGGA):	acil (CCGC):	acyl (GRCGYC):	afilii (ACRYGT):	ageI (ACCGGT):	ahali (GRCGYC):	ahalil (TTTAAA);	aluI (AGCT):	alw26I (CAGNNNCTG):	alwI (GGATCNNNN):	alwni (cagnincig) :	apal (GGGCCC):	apoi (RAATTY):	apyl (CCWGG):	aseI (ATTAAT) :	asnī (Attaat) :	asp700 (GAANNNTTC):	asp718 (GGTACC):	aspHI (GWGCWC):	aspi (Gacningic):	aval (CYCGRG):	avali (GGRCC) :	ball (TGGCCA):	bamHI (GGATCC):	bani (GGYRCC):	

banII (GRGCYC):	484 533 809 2342
bbsi (GAAGACNNNNN):	130 379 587
bbvI (GCAGC):	292 312 315 318 321 508 519 522 567 570 672 1235 1552 1756 2017 2024
bceal (Acgcinninninninnin):	502 656
bfal (CTAG):	243 1210 1216 1396 1504 1805 1849 1889 2140 2337
bgli (GCCNNNNGGC):	535
bglii(AGATCT):	822
bmyI (GDGCHC):	159 484 533 809 2152 2342
bpmI (CTGGAG):	96 258 325 814 883 1290
bpual (Gaagacnnnnnn):	130 379 587
bsaAI (YACGTR):	42 ;
bsaHI (GRCGYC):	
bsal (GGTCTCNNNNN);	1034 2234
bsaJI (CCNNGG):	139 359 503 528 545 684 812 881 995 996 1143 1516 2060 2353
bsaWI (WCCGGW):	1226 2127 2366 2371
bseri (Gaggarnnnnnnnn):	342 749 1270
bsgI (GTGCAG);	415 670 1994
bsh1236I(CGCG):	38 331 1329
bsiei (cgrycg):	755 2327
bsihkal (GWGCWC):	484 2152 2342
bsimi (cgtacg):	40
DSII (CCMNNNNNGG):	135 184 274 275 354 396 614 631 771 1847 1848 2060
bsmAI (GTCTC):	1034 2235
bsmAI (GrcTC):	1034 2235
bsmfi (GGGACNNNNNNNNNNNN);	143 202 297 1141 1399 1986
DSOFI (GCNGC):	85 292 312 315 318 321 332 508 519 522 567 570 672 1235 1552 1756
	2017 2024 2326 2329
bspl201 (GGGCCC):	533
bsp1286(GDGCHC):	159 484 533 809 2152 2342
DSPCNI (CTCAGNNNNNNNNNN);	563 1050
GSeqEd	SSeqEdit, DNA92234 [Full], page 17

bspel (TCCGGA):	2366
bsphi (TCATGA):	1074
bspMI (ACCTGC):	2377
bspMII (TCCGGA):	2366
bsrFI (RCCGGY):	2371
bsrI (ACTGGN):	384 618 1542
bsskI (CCNGG):	139 360 528 609 684 813 882 995 996 1038 1113 1137 1144 1239 1342
	1363 1602 1638 2061 2353 2354
bssSI (CTCGTG):	2155
bst4CI(ACNGT):	643 1354 1573
bstapi (GCANNNNTGC):	641
bstDSI (CCRYGG):	503 1516
bstF5I(GGATG):	405 606 857 1068 1203 1605 1844 1857 2175
bstNI (CCWGG):	528 609 813 882 1038 1113 1137 1144 1342 1363 1638 2061
bstul(cgcg):	38 331 1329
bstxI (CCANNNNTGG) :	260 1478
bstYI (RGATCY):	270 822 1609
btgI (CCRYGG):	503 1516
btrI (CACGTC):	199
btsI (GCAGTGNN):	1992
cac8I (GCNNGC):	31 35 303 675 868 975 2020 2381
cfoI (GCGC):	330 364 525 800 1328
ofr101 (RCCGGY):	2371
cfrI (YGGCCR):	437 500 611 657 1365 2327
cpol(CGGWCCG):	2368
csp6I (GRAC):	41 387 1296 1897 2375 2387
cspI (CGGWCCG):	2368
ddeI(CTNAG);	563 1050 1265 1767
dpnI (GATC):	271 628 786 823 960 1090 1320 1566 1599 1610 1644 1812 1817 1937

GSegEdit, DNA92234 [Full], page 18

2183

dpnII (GATC):	271 628 786 823 960 1090 1320 1566 1599 1610 1644 1812 1817 1937
	2183
dral (TTTAAA):	1914
drall (RGGNCCY) :	532 558 768 1984 2142
dralli (CACNNNGTG):	642
dsaI (CCRYGG):	503 1516
dsaV(CCNGG):	139 360 528 609 684 813 882 995 996 1038 1113 1137 1144 1239 1342
	1363 1602 1638 2061 2353 2354
eaeI (YGGCCR);	437 500 611 657 1365 2327
eagl (CGGCCG):	2327
earl (CTCTTCNNN):	15 487 862 1100 1177
ecll36II (GAGCTC):	484 2342
eclXI (CGGCGG):	2327
eco571 (CTGAAG):	250 424 474 489 804
econi (cctnnnnagg) :	
eco01091 (RGGNCCY):	532 558 768 1984 2142 ·
ecoRI (GAATTC):	4.0
ecoRII (CCWGG):	528 609 813 882 1038 1113 1137 1144 1342 1363 1638 2061
ecoRV(GATATC):	1929
fnu4HI (GCNGC):	85 292 312 315 318 321 332 508 519 522 567 570 672 1235 1552 1756
	2017 2024 2326 2329
funDII (CGCG):	38 331 1329
fokI (GGATG):	405 606 857 1068 1203 1605 1844 1857 2175
gsul (CIGGAG):	96 258 325 814 883 1290
haell (RGCGCY);	363 524 799
haelli (GGCC):	438 501 534 543 612 658 769 1366 1776 2328
hgal (GACGC):	295 420
hgial (GWGCWC):	484 2152 2342
hhaI (GCGC):	330 364 .525 800 1328
hinPI (GCGC):	330 364 525 800 1328
GSeqī	GSeqEdit, DNA92234 (Full), page 19

hincII (GTYRAC):	2348
hindII (GTYRAC):	2348
hinfI (GANTC):	204 451 585 914 1120 1148 1275 1500 1829 2070 2407
hinlI (GRCGYC):	25
hpal1 (CCGG):	139 361 684 996 1227 1239 1602 2128 2354 2367 2372
hphI (GGTGA):	3 181 346 1023 1434 1832
hpy188I (TCNGA):	51 79 252 476 491 582 806 946 1568 1809 1814
hpy188III(TCNNGA):	97 281 402 443 1051 1074 1209 1289 1446 1873 1933 2156 2366
hpy991 (cGWCG):	27 2347
hpyCH4III (ACNGT):	643 1354 1573
hpych4IV (ACGI):	26 43 149 668
hpych4v (TGCA):	34 416 521 671 1030 1283 1524 1995 2023 2051 2104 2380
kpnI (GGTACC):	1295 2374
ksp6321 (CICTICNNN);	15 487 862 1100 1177
mael(CTAG):	243 1210 1216 1396 1504 1805 1849 1889 2140 2337
maeli(ACGT):	26 43 149 668
maeili(GINAC):	4 180 1435 2158
mbol (GATC):	271 628 786 823 960 1090 1320 1566 1599 1610 1644 1812 1817 1937
	2183
mboII (GAAGA):	15 131 380 488 588 825 862 917 1101 1177 1219 1450
mori (CGRYCG):	755 2327
mfel (CAATTG):	1622
mlui (Acgest):	37
mlyī (Gagtchnnnn):	204 451 585 1120 1500 2407
mnli (ccrc):	65 77 126 185 209 227 246 344 350 396 469 545 562 598 724 749 853
	865 886 1021 1168 1180 1270 1287 1293 1324 1402 1738 1835 2005 214
mroI (TCCGGA):	2366
mscI (TGGCCA):	437
msel (TTAA):	175 1788 1915 1981 2220 2361
msli (CAYNNNRTG):	400 1405 1407
GSeqB	SSecEdit, DNA92234 [Full], page 20

· (CWC) I (CWC) :	568 1672
mspI (CCGG):	139 361 684 996 1227 1239 1602 2128 2354 2367 2372
munI (CAATIG).:	1622
mval (CCWGG):	528 609 813 882 1038 1113 1137 1144 1342 1363 1638 2061
mvnI (CGCG):	38 331 1329
mwol (GCNNNNNNGC);	303 312 315 321 357 502 535 641 650 793 802 1555 1665
ncil (CCSGG);	139 360 684 995 996 1239 1602 2353 2354
ndeII(GATC):	271 628 786 823 960 1090 1320 1566 1599 1610 1644 1812 1817 1937
	2183
nlaIII(CATG):	32 199 336 555 1014 1075 1315 1407 1497
nlaIV(GGNNCC):	270 532 533 558 640 705 991 1054 1140 1164 1295 1609 1741 1985 2374
not1(GCGGCCGC):	2326
nspBII (CMGCKG):	568 1672
nspHI (RCATGY):	31 335
nspI (RCATGY):	31 335
paek71 (CTCGAG):	62
pali (GGCC):	438 501 534 543 612 658 769 1366 1776 2328
pfifi(Gacnnngic):	451
plei (Gagtonnam):	204 451 585 1120 1500 2407
ppuMI (RGGMCCY):	558 1984 2142
pshai (Gacmnngtc):	553
pspAI (CCCGGG):	995 2353
pspGI (CCWGG):	528 609 813 882 1038 1113 1137 1144 1342 1363 1638 2061
pspomi (GGGCCC):	533
pstI (CTGCAG):	520 2379
pvuli (CAGCTG):	568
rcal (TCATGA):	1074
rmaI (CTAG):	243 1210 1216 1396 1504 1805 1849 1889 2140 2337
rsaI (GTAC):	41 387 1296 1897 2375 2387
rsili(CGGWCCG):	2368

GSeqEdit, DNA92234 [Full], page 21

```
292 312 315 318 321 508 519 522 567 570 672 1235 1552 1756 2017 2024
                                                                                                                                                            139 360 528 609 684 813 882 995 996 1038 1113 1137 1144 1239 1342
                                                      271 628 786 823 960 1090 1320 1566 1599 1610 1644 1812 1817 1937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 55 410 842 942 1250 1382 1623 1668 1748 1880 2107 2359 2363
                                                                                                         533 534 559 705 769 909 1140 1776 1985 2143 2369
                                                                                                                                                                                       1363 1602 1638 2061 2353 2354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      175 1788 1915 1981 2220 2361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GSegEdit, DNA92234 [Full], page 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          914 1148 1275 1829 2070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               63 443 1259 1322 2349
                                                                                                                                                                                                                                           10 520 2379 2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 180 1435 2158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26 43 149 668
                                                                                                                                                                                                                                                                                                                         52 2006 2147
                           15 486 1099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     38 331 1329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1528 1949
                                                                                                                                                                                                                                                                                              995 2353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              484 2342
  2348
                                                                                   2183
                                                                                                                                                                                                                  1067
                                                                                                                                                                                                                                                                                                                                                                             2336
                                                                                                                                                                                                                                                                                                                                                                                                                                                        2378
                                                                                                                                                                                                                                                                      534
                                                                                                                                                                                                                                                                      Sfil (GGCCNNNNGGCC):
                                                                                                                                                                                                                                                                                                                                                                                                                                                        sse83871 (CCTGCAGG);
                           sapi (GCTCTTCNNNN) :
                                                                                                                                    sbfI (ccTGCAGG) :
                                                                                                                                                                                                                                                                                                                                                  snaBI (TACGTA):
                                                                                                      sau96I (GGNCC):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ESP45I (GTSAC):
                                                                                                                                                                                                                                                                                                                         smlI (CTYRAG):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 tap509I (AATT);
sall (GTCGAC) :
                                                      sau3AI (GATC):
                                                                                                                                                               scrFI (CCNGG) :
                                                                                                                                                                                                                  sfaNI (GCATC):
                                                                                                                                                                                                                                             sfcI (CTRYAG) :
                                                                                                                                                                                                                                                                                              smal (CCCGGG):
                                                                                                                                                                                                                                                                                                                                                                             spel (ACTAGT):
                                                                                                                                                                                                                                                                                                                                                                                                     sphI (GCATGC):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sstI (GAGCIC):
                                                                                                                                                                                                                                                                                                                                                                                                                                spli (CGTACG):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sspI (AATATI):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tlii (crccag)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tru9I (TIAA):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 tsel (GCWGC):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tfil (GAWTC):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tail (ACGT):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  :aqI (TCGA) :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     thal (CGCG):
```

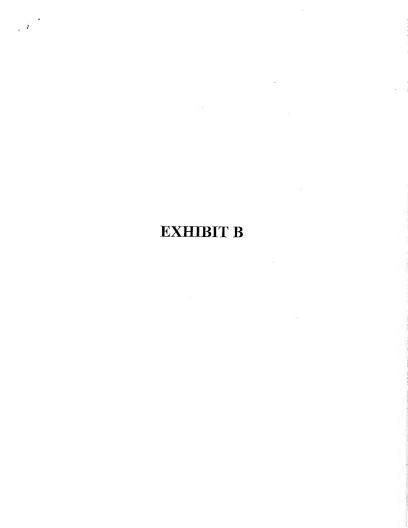
484 2342

sacI (GAGCTC):

tspri (nncagtgnn);	1574 1821 1992 2243
tth1111 (GACNNNGTC):	451
vspi (attaat) :	1787 2219 2360
xbaI (TCTAGA):	1209
xhoI (CICGAG):	62
xhoII(RGAICY):	270 822 1609
xmaI (CCC6GG):	995 2353
xmaIII (CGGCCG):	2327
xmul (GAANNNTTC);	375 1159 1379 1469 2358

not found

eco721 (CACGTG), eco811 (CCTNAGG), ehel (GCGCCC), esp31 (CGTCTC), esp1 (GCTNAGC), fse1 (GCCGGCC), fsp1 (TGCGCA), hindlil (AAGCT), bsu36I (CCINAG6), cellI (GCINAGC), clal (ATGAI), drdI (GACNINTNNNGTC), eaml105I (GACHNNNTNGTC), ecil (GGCGGA), eco47III (AGCGCT), pmeI (GTTTAAAC), pml1 (CACGTG), ppul01 (ATGCAT), psi1 (TTATAA), psp14061 (AAGGTT), pvul (CGATGG), sacII (CGGGG), sanDI (GGGMCCC), ndel (CATATG), ngoMI (GCCGGC), nhel (GCTAGC), nrul (TCGCGA), nsil (ATGCAT), paci (TTAATTAA), pcil (ACATGT), pflMI (CCANNNNTGG), saul (CCTNAGS), scal (AGTACT), scal (TAGGGATAACAGGGTAAT), scaal (ACCWGGT), sful (TTCGAA), sgfl (GCGATCGC), sgral (CRCCGGYG), begi (nnnnnnnnnnncgannnnnnng chinnnnnnnnn), beivi (gratcc), beli (tgatca), bérei (atgeat), béri (ctrag), hpa! (GTTAAC), kas! (GGCGCC), ksp! (CGCGG), mam! (GATNNNNATC), mst!! (CCTNAGG), nae! (GCCGC), nar! (GGCGCC), nco! (CCATGG), bsrDI (GCAATGRM), bsrGI (TGTACA), bssHII (GCGCGC), bst11071 (GTATAC), bstBI (TTCGAA), bstBII (GGTNACC), bst2171 (GTATAC), bsmBI (GGTCTCNNNN), bsmI (GAATGCN), bspI06 (ATCGAT), bspI407I (TGTACA), bspCI (CGATCG), bspDI (ATCGAT), bsrBI (GACGG), blp1 (GCTWAGC), bpu11021 (GCTWAGC), bsab1 (GATWRWATC), bsaX1 (NNNNNNNNNACNNNNNCTCCNNNNNNNNN), bsiC1 (TTCGAA), aclI (AACGT), afel (AGCGCT), afili (CTTAAG), ahdi (GACNNNNGTC), alw441 (GTGCAC), apali (GTGCAC), asci (GGCGCGCC), avalli (ATGCAF), avili (TGCGCA), avrili (CCTAGG), bael (nnnhnnnnnnnnnngraychnngraychnnnnnnnn), bbrpi (CACGTG), snol (GTGCAC), snol (GTGCAC), srfl (GCCCGGGC), sstll (CCGCGG), stul (AGGCCT), styl (CCWWGG), swal (ATTTAAAT),



	I	
Additional Resources:		
Carbella Hempian	# Find C New C Update	NSY SE
	puscula sen una skille	THE COLD SEE AND TOTAL SEE

Assay Name Mouse Mossenglal Cell proliferation Assay Alsa Name Mu Mess Cell Prolif

Type Cell

Assay Volume 0.1 mil Fold DR Into Wert

Volume Requested 0.08ml/wel/col

Matth: Promege Refer the assets Result Caropistion

Result folyspretation Any PIN that gives on ebs-Result Culoff > 15%

orbance reading which is 15% above the media control is conside

speumoo Stative

Oate Entward

Date Genoried

Department, Endocrindagy

Scientsi <u>James (Grothus</u> Notebook B. Assayon

ASY I DRAN DOMI EZY I EMM I ENSI LIB I LOTTI MAR I CALI REGI I PURI BUSI SINC I UNCI 1991 I YST ARSYL YORWI I BOURDON MERKE I SENEKI I SENEKI I SENEKI I SENEKI I SENEKI SENEKI BUSI BUSI I SENEKI

Biozraa Endechiology Lab Scionfist Weiguang Mao Cancel Reason



Asset Obesit (Shakenze Vinest (Bear Vern) (Quantifice) (Shake

Georgeon Escherk